

CLAIM AMENDMENTS

1 (currently amended). A composition for treating autism, comprising:

314 a ~~physiologically~~ therapeutically effective amount of ⁽¹⁾a ~~substantially purified genomeecutical material of the type that material that upon ingestion by a human suffering from autism affects expression of a DPPIV-like compounds when ingested by a human an endogenously produced gene product that cleaves proline containing peptides in such a manner as to relieve symptoms of autism; and~~

~~one or more of~~ ⁽²⁾ a substantially purified protease; and ⁽³⁾ a substantially purified peptidase that exhibits DPPIV-like activity or a purified phytase cleaves proline containing peptides.

2 (currently amended). The composition of claim 1, wherein said ~~genomeecutical~~ gene product expression affecting material includes galactose.

3 (withdrawn).

4 (withdrawn).

5 (currently amended). The composition of claim 1, wherein said ~~DPPIV-like compound~~ gene product includes ~~DPPIV-dipeptidyl-peptidase IV~~ or ~~QPP~~ quiescent cell proline peptidase.

6 (currently amended). The composition of claim 1, wherein said protease includes at least one of an acid fast protease capable of functioning at the pH of the human stomach to hydrolyze larger proteins into smaller peptides and a ~~eystein~~ cysteine protease.

7 (currently amended). The composition of claim 6, wherein said ~~eystein~~ cysteine protease is bromelain or papain.

8 (currently amended). The composition of claim 1, further comprising both said protease and said a substantially purified phytase.

9 (withdrawn).

10 (withdrawn).

11 (withdrawn).

12 (currently amended). A composition for treating autism, comprising:

a substantially purified phytase-like compound; and
a physiologically therapeutically effective amount of one or more of a purified genomeecutical for treating autism or a substantially purified peptidase that exhibits DPPIV like activity cleaves proline containing peptides for treating autism.

13 (currently amended). The composition of claim 12, further comprising both of said purified genomeecutical and said purified peptidase a therapeutically effective amount of a substantially purified material that upon ingestion by a human suffering from symptoms of autism affects expression of a gene product that cleaves proline containing peptides to treat symptoms of autism.

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14 (currently amended). The composition of claim 12, further comprising an a substantially purified acid fast protease capable of functioning at the pH of the human stomach to hydrolyze larger proteins into smaller peptides and a substantially purified cysteine protease.

15 (currently amended). The composition of claim ~~12~~13, wherein said genomeecutical gene product expression affecting material includes at least one of substantially purified galactose or substantially purified glucans.

16 (withdrawn).

17 (currently amended). A method of preparing a composition for treatment of autism, comprising the steps of:

providing a physiologically therapeutically effective amount of a substantially purified genomeecutical material of the type that when ingested by a human suffering from autism affects expression of a DPPIV like compounds when ingested by a human an endogenously produced gene product that cleaves proline containing peptides in such a manner as to relieve symptoms of autism;

providing ~~at least one of a~~ first substantially purified protease that is capable of functioning at the pH of the human stomach to hydrolyze larger proteins into smaller peptides, a substantially purified peptidase that exhibits DPPIV like activity or cleaves proline containing peptides, and a substantially purified phytase; and

mixing said ~~purified genomeecutical and gene product expression~~ affecting material, said ~~one of said purified protease~~, said peptidase or and said phytase to achieve a ~~compound~~ an ingestible composition effective in treating symptoms of autism.

18 (currently amended). The method of claim 17, wherein the step of providing ~~at least one of a purified protease, said peptidase or phytase~~ includes the steps of providing ~~said purified peptidase a~~ peptidase that performs exorphin digestion.

314 19 (currently amended). The method of claim 17, wherein said step of providing ~~a purified genomeecutical~~ said gene product expression affecting material includes the step of providing at least one of substantially purified galactose and substantially purified glucans.

20 (currently amended). The method of claim 17, ~~wherein said further providing the~~ step of providing ~~a purified protease~~ includes the ~~step of providing at least one of a purified acid fast protease and a~~ substantially purified eystein-cysteine protease.

Please add the following new claims:

21 (new). The composition of claim 1, wherein said protease includes an acid fast protease that is capable of functioning at the pH of the human stomach to hydrolyze larger proteins into smaller peptides and a cysteine protease.

22 (new). The composition of claim 21, further comprising a substantially purified phytase.

23 (new). The composition of claim 1, further comprising a substantially purified lactase.

24 (new). The composition of claim 12, wherein said peptidase performs exorphin digestion.

25 (new). The composition of claim 12, wherein said peptidase exhibits endo- and exo-peptidase activity.

26 (new). The composition of claim 12, further comprising a substantially purified lactase.

27 (new). The composition of claim 13, wherein said gene product expression affecting material includes at least one of substantially purified fructose, lactose, sucrose and glucose.

28 (new). The composition of claim 13, wherein said gene product includes dipeptidyl-peptidase IV or quiescent cell proline peptidase.

29 (new). A composition for treating symptoms of autism, comprising:

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a therapeutically effective amount of a substantially purified material that upon ingestion by a human suffering from symptoms of autism affects expression of a gene product that cleaves proline containing peptides in such a manner as to relieve symptoms of autism; and

a substantially purified acid fast protease that is capable of functioning at the pH of the human stomach to hydrolyze larger proteins into smaller peptides;

a substantially purified peptidase that cleaves exorphin peptides; and

a substantially purified phytase.

30 (new). The composition of claim claim 29, further comprising a substantially purified cysteine protease.

31 (new). The composition of claim 29, wherein said peptidase exhibits endo- and exo-peptidase activity.